## CENTER PIVOT EVALUATION

				· · · · · · · · · · · · · · · · · · ·	
Legal description		Date	B	у	
Soil series	- mapped	Actual	L	and slope	(Abney)
Type crop	(8)				
HARDWARE	INVENTORY:				
Bran	d name and model			No. towers	
Туре	tower drive			Nozzle: Impact	or pray
FIELD DATA	INVENTORY:				
Wind	: Speed	Direction (	from)	Air temp	
Line	direction from center to	outer tower		Moving (clockwise)	
Hum	idity: Dry Moderate	High	System o	capacity	(d)
Oper	ating pressure at pivot	psi at	pump	psi at end tower	psi
(If c	t pump record: Pipe typ	e	_ length	diameter	>
Disto	ance from center to: End	tower	(a) feet	Wetted edge	(c) feet
End	tower speed		(b) feet/ho	ur	
Desi	gn application (if known) _		inches		
PRECIPITAT	ION DATA:				
EVALUATION	Ŀ				
Α.	Circumference of end to	ower (6.283 x a)	=	_ (A) feet	
В.	Hours per revolution $\frac{A}{b}$				
C.	Area irrigated $\frac{(c^2 \times 3.)}{(4356)}$	- /			
D.	Gross application $\frac{(B \times (453))}{(453)}$	<u>d)</u> (C)		_ (D) inches	
E.	Weighted system averag	$e \frac{\Sigma(g)}{\Sigma(e)} = \underline{\hspace{1cm}}$		c.c. =	(E) inches
F.	Weighted 25% low avera	ge: (see direction	on 7)		
	Sum of 25% low $\langle e \rangle$ =		(h) (	(approx. (e) x 0.25 =	·)
	Sum of 25% low (e) x				
	-	$\frac{(i)}{(h)} = \phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$		c.c	(F) inches
G.	Pattern eff = $\frac{\langle F \rangle \times 100}{\langle E \rangle}$				
н.	Application eff = $\frac{(E) \times (D)}{(D)}$	100		_ (H) %	
١,	System eff = $\frac{\text{(G)} \times \text{(H)}}{100}$				
Comments:	s (stage of growth, runof	f, tower rutting,	erosion, etc) _		
		-	·		

## PRECIPITATION DATA DIRECTIONS

- 1. Place the cans from the pivot to the outer wetted fringe at 30 foot spacings.
- 2. Insure placed cans are stable against turning over and are at or slightly above the height of the crop.
- 3. Cans may be placed 5 feet either direction to avoid wheel tracks or tower bars.
- 4. If a period of time will elapse prior to reading the catch, place approximately 10 ml \c.c.\) of colored kerosene in each can and deduct colored amount from the catch reading.
- 5. If oil cans are used, divide catch c.c. reading by 200 to get inches.
- 6. Evaluation Step F., the low 25% (e) may be found by summing each succeeding lowest (f) value's associated (e) and (g) until the approximate 25% total  $\Sigma$ (e) value is reached. The sums provide values (h) and (i).

(e) Can No.	(f) Catch c.c.	(g) (e) x (f)	Catch inches	(e) Can No.	(f) Catch c.c.	(g) (e) x (f)	Catch inches	(e) Can No.	(f) Catch c.c.	(g) (e) x (f)	Catch inches
1				21				41			
2				22				42			
3				23				43			
4				24				44			
5				25				45			
6				26				46			
7				27				47			
8				28				48			
9				29				49			
10				30				50			
11				31				51			
12				32				52			
13				33				53			
14				34				54			
15				35				55			
16				36				56			
17				37				57			
18				38				58			
19				39				59			
20				40				60			
TOTALS			TOTALS			TOTALS					
											$\overline{}$

SUM	TOTAL	$\Sigma$ (e)	$\Sigma$ (a	a	וב